

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P857750

Luminaire Tested: **LD4C35D010 EU4359035 4LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857750
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C35D010 EU4359035 4LBMDSWLI
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

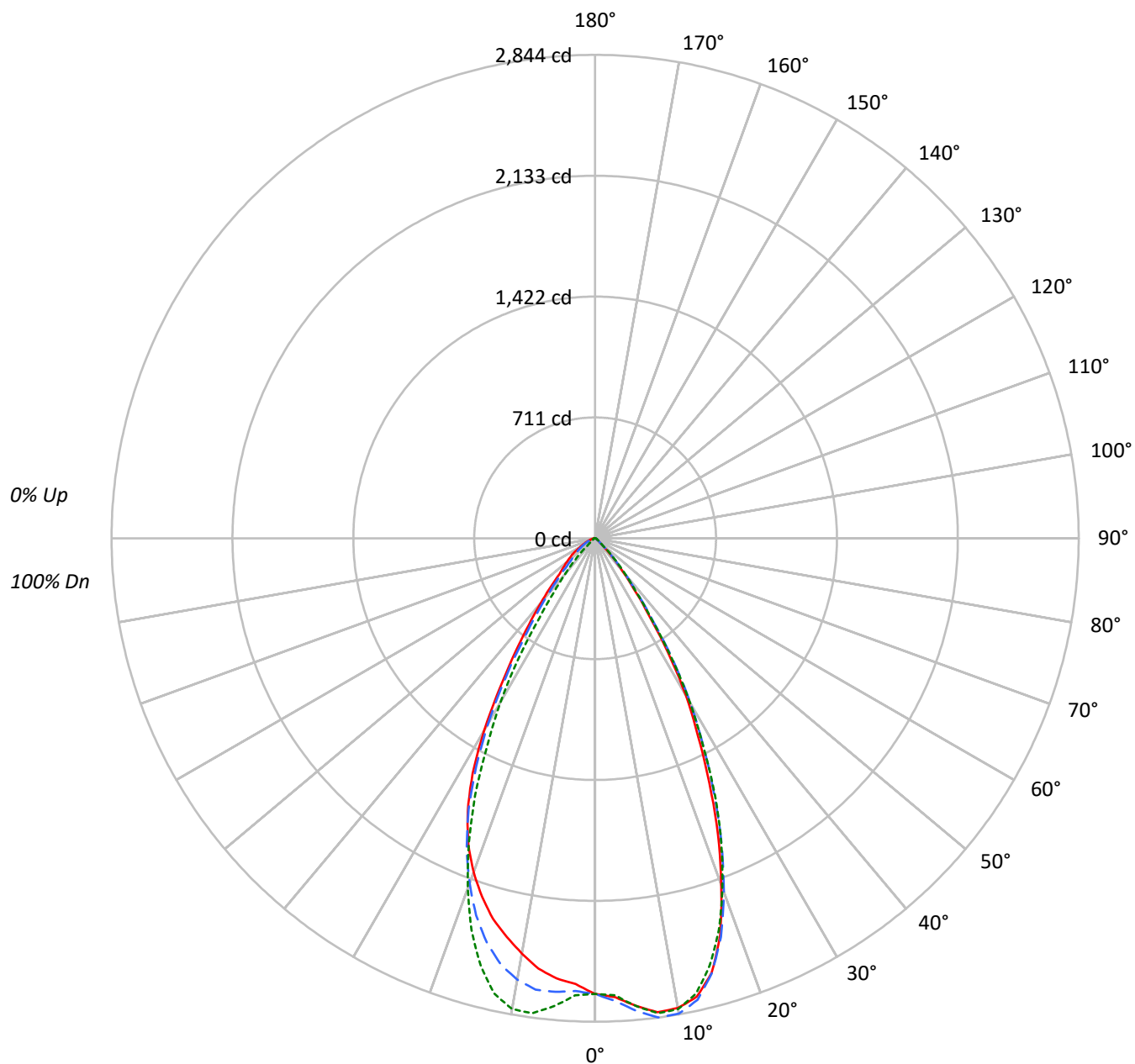
Lumens per Lamp: N/A
Luminaire Lumens: 2383.0 lumens
Efficiency: N/A
Efficacy: 59.0 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

TEST NUMBER: P857750

CATALOG NUMBER: LD4C35D010 EU4359035 4LBMDSWLI

Luminous Intensity Polar Plot





TEST NUMBER: P857750

CATALOG NUMBER: LD4C35D010 EU4359035 4LBMDSWLI

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93		
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87		
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80		
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75		
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70		
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65		
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61		
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58		
9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54		
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	56	52	51		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	329284	329284	329284
5°	340506	340728	320590
10°	349933	350843	309427
15°	336703	330878	294935
20°	283505	286146	273190
25°	215368	226307	240486
30°	151463	157719	185041
35°	81722	85577	122441
40°	39420	43541	79433
45°	14021	19129	51636
50°	5256	6670	41379
55°	3920	4712	34184
60°	3145	3612	24792
65°	2674	3198	19186
70°	1976	2622	15158
75°	1756	2611	11297
80°	1273	2618	7782
85°	0	2537	5215



TEST NUMBER: P857750

CATALOG NUMBER: LD4C35D010 EU4359035 4LBMDSWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.0	11.0
10°-20°	704.0	29.5
20°-30°	763.7	32.0
30°-40°	423.7	17.8
40°-50°	135.0	5.7
50°-60°	54.4	2.3
60°-70°	27.5	1.2
70°-80°	11.4	0.5
80°-90°	2.3	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1728.7	72.5
0°-40°	2152.4	90.3
0°-60°	2341.8	98.3
0°-90°	2383.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2383.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2680	2680	2680	2680	2680	
5°	2761	2790	2763	2678	2600	265
15°	2647	2649	2602	2462	2319	724
25°	1589	1655	1670	1759	1774	726
35°	545	589	571	754	816	361
45°	81	95	110	246	297	77
55°	18	18	22	117	160	17
65°	9	9	11	53	66	9
75°	4	4	6	18	24	4
85°	0	0	2	4	4	0
90°	0	0	0	0	0	



TEST NUMBER: P857750

CATALOG NUMBER: LD4C35D010 EU4359035 4LBMDSWLI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2680.3	2680.3	2680.3	2680.3	2680.3	2680.3	2680.3	2680.3	2680.3
2.5°	2702.4	2726.2	2724.4	2706.0	2691.3	2685.8	2665.7	2641.8	2625.3
5°	2761.1	2790.4	2790.4	2775.7	2762.9	2731.7	2678.5	2627.1	2599.6
7.5°	2812.4	2841.8	2843.6	2832.6	2817.9	2766.6	2678.5	2595.9	2553.8
10°	2805.1	2827.1	2839.9	2828.9	2812.4	2744.5	2636.3	2526.2	2480.4
12.5°	2762.9	2783.1	2781.2	2764.7	2742.7	2673.0	2566.6	2452.8	2401.5
15°	2647.3	2658.3	2649.2	2630.8	2601.5	2548.2	2462.0	2364.8	2318.9
17.5°	2447.3	2462.0	2458.4	2429.0	2418.0	2366.6	2326.3	2251.0	2210.7
20°	2168.5	2214.4	2214.4	2192.3	2188.7	2153.8	2159.3	2119.0	2089.6
22.5°	1887.8	1928.2	1941.0	1931.8	1939.2	1922.7	1974.0	1963.0	1948.3
25°	1588.8	1629.1	1654.8	1651.1	1669.5	1669.5	1759.4	1781.4	1774.1
27.5°	1308.1	1346.6	1375.9	1383.3	1372.3	1392.5	1515.4	1559.4	1559.4
30°	1067.7	1098.9	1126.4	1126.4	1111.8	1126.4	1256.7	1308.1	1304.4
32.5°	796.2	831.1	856.8	853.1	840.2	860.4	998.0	1049.4	1036.5
35°	544.9	568.7	588.9	581.6	570.6	603.6	754.0	818.2	816.4
37.5°	368.8	390.8	403.6	398.1	394.4	433.0	570.6	642.1	638.4
40°	245.8	260.5	269.7	267.9	271.5	304.5	429.3	495.3	495.3
42.5°	155.9	165.1	174.3	174.3	183.5	218.3	326.6	383.4	383.4
45°	80.7	86.2	95.4	100.9	110.1	146.8	245.8	293.5	297.2
47.5°	38.5	40.4	44.0	45.9	53.2	91.7	189.0	240.3	251.3
50°	27.5	29.4	29.4	29.4	34.9	69.7	159.6	207.3	216.5
52.5°	22.0	22.0	22.0	23.8	27.5	58.7	137.6	179.8	187.1
55°	18.3	18.3	18.3	18.3	22.0	47.7	117.4	154.1	159.6
57.5°	14.7	14.7	14.7	14.7	18.3	38.5	97.2	122.9	124.8
60°	12.8	12.8	12.8	12.8	14.7	33.0	78.9	100.9	100.9
62.5°	11.0	11.0	11.0	11.0	12.8	27.5	66.0	82.6	80.7
65°	9.2	9.2	9.2	9.2	11.0	22.0	53.2	66.0	66.0
67.5°	7.3	7.3	7.3	7.3	9.2	18.3	42.2	53.2	53.2
70°	5.5	5.5	5.5	5.5	7.3	14.7	34.9	42.2	42.2
72.5°	5.5	5.5	5.5	5.5	5.5	11.0	25.7	33.0	31.2
75°	3.7	3.7	3.7	3.7	5.5	9.2	18.3	23.8	23.8
77.5°	3.7	3.7	3.7	3.7	3.7	7.3	14.7	16.5	16.5
80°	1.8	1.8	1.8	1.8	3.7	5.5	9.2	11.0	11.0
82.5°	0.0	1.8	0.0	1.8	1.8	3.7	7.3	7.3	7.3
85°	0.0	0.0	0.0	0.0	1.8	1.8	3.7	5.5	3.7
87.5°	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)